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Form PTO 948 (Rev. 8-98)

U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office

Application No. 9/253,153

## NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

| Black ink. Culor.  Color drawings are not acceptable until petition is granted. Fig(s) Peneral and non black ink not permitted. Fig(s) Photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographs not brystol board or photographs not large and black (poor line quality).  SECE OF APER. 37 CFR 1.84(f): Acceptable size.  10. CHARACTER OF LINES, NUMBERS, & LETTERS.  11. SIADING. 37 CFR 1.84(f)  Line fined, clayan drawing is reduced in size to two-thirds in reproduction.  Fig(s)  Solid black shading not permitted. Fig(s)  Solid black shading not de | DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:  | 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)  |
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| Pencil and non black ink not permitted. Fig(s)  1 full-tone set is required. Fig(s)  Photographs not properly mounted (must use brystol board or photographs double-weight paper.) Fig(s)  TYPE OF PAPER. 37 CFR 1.84(c)  Paper not flexible, strong, white, and durable.  Fig(s)  Erasures, alterations, overwritings, interlineations, folds, cropy machine marks not acceptable. Fig(s)  SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:  21.0 cm by 29.7 cm (DIN size A4)  21.6 cm by 29.7 cm (DIN size A4)  21.6 cm by 29.7 cm (DIN size A4)  All drawing sheets not the same size.  Sheet(s)  Drawings sheets not an acceptable size Fig(s)  Top 2.5 cm 1 left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: 8 1/2 x 11  Margins not acceptable. Fig(s)  Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: 8 1/2 x 11  Margins not acceptable. Fig(s)  Fig(s)  Top 7.7 CFR 1.84(h)  REMINDER'S, Sectification may require revision to correspond to drawing changes.  Partial views. 37 CFR 1.84(p):  Partial views. 37 CFR 1.84(h)  Fig(s)   | Black ink. Color.  Color drawings are not acceptable until petiton is granted.                        | Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top |
| Photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s)   Foor quality (half-lone). Fig(s)   Paper not flexible, strong, white, and durable. Fig(s)   Paper not flexible, strong, white, and durable. Fig(s)   Fig(s)   Mylar, velum paper is not acceptable (too thin). Fig(s)   Mylar, velum paper is not acceptable (too thin). Fig(s)   Solid black shand proper the paper is not acceptable sizes. Solid black shand good proper the same size. Sheet(s)   All drawing sheets not the same size. Sheet(s)   Drawings sheets not an acceptable size. Fig(s)   MARGINS. 37 CFR 1.84(g). Acceptable margins: State 1.5 cm Bottom 1.0 cm SIZE: Al Size   Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: Al Size   Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: Bl 12 x 11   Margins not acceptable. Fig(s)   REMINDER: Specification may require revision to correspond to drawing changes.   Prigor Lead inner small special correspond to drawing changes.   Prigor Lead inner small special correspond to drawing changes.   Prigor Lead inner smissing. Fig(s)   Size Blaze of the same size.   Prigor Lead inner smissing. Fig(s)   Size Blaze of the same size   Size of the same size   Size Blaze of the same size   Size of the same s | Pencil and non black ink not permitted. Fig(s)  2. PHOTOGRAPHS. 37 CFR 1.84 (b)                       | 9. SCALE. 37 CFR 1.84(k)  Scale not large enough to show mechanism without                                       |
| 3. TYPE OF PAPER. 37 CFR 1.84(e) Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) Mylar, velum paper is not acceptable (too thin). Fig(s) 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.6 cm by 29.7 cm (R) 18 ze A4) Drawings sheets not an acceptable size. Fig(s) ARAGINS. 37 CFR 1.84(g): Acceptable margins:  MARGINS. 37 CFR 1.84(g): Acceptable margins:  Top 2.5 cm 1.6ft 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11 Margins not acceptable. Fig(s) Top (T) Right (R) Boiltom (B)  6. VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) Views not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Sectional designation should be noted with Arabic or  37 CFR 1.84(h)(3) Bectional designation should be noted with Arabic or  37 CFR 1.84(f)(3) LEAD LINES. 37 CFR 1.84(p) Lead lines missing. Fig(s) Lead lines missing. Fig(s) Lead lines missing. Fig(s) Lead lines cross each other. Fig(s) Lead lines missing. Fig(s) Lead lines cross each other. Fig(s) Lead lines missing. Fig(s) | Photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s) | reproduction.<br>Fig(s)  |
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| Fig(s)  4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 27.7 cm (DIN size A4) 21.6 cm by 27.9 cm (BIV2 x 11 inches) 37 CFR 1.84(p) All drawing sheets not the same size. Sheet(s) Drawings sheets not an acceptable size. Fig(s)  5. MARGINS. 37 CFR 1.84(g): Acceptable margins:  Top 2.5 cm 1 Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: B 1/2 x 11 Margins not acceptable. Fig(s) Top (I) Left (L) Right (R) Bottom (B)  6. VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) Views not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Sectional designation should be noted with Arabic or  Solid black shading not permitted. Fig(s) Shade lines, pale, rough and bitrned. Fig(s) Shade lines, pale, rough and bitrned. Fig(s) Shade lines, pale, rough and bitrned. Fig(s)  12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p) Numbers and reference characters not plain and legible. Fig(s) Fig(s) Size legands are poor. Fig(s) Fig(s) Fig(s) Fig(s) Fig(s) Size and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) Size and reference characters must be at least and reference  | Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s)  | 11. SHADING, 37 CFR 1.84(m)  |
| 21.6 cm by 27.9 cm (8 1/2 x 11 inches) All drawing sheets not the same size. Sheet(s) Drawings sheets not an acceptable size. Fig(s) Drawings sheets not an acceptable size. Fig(s)  5. MARGINS. 37 CFR 1.84(g): Acceptable margins:  Top 2.5 cm 1.6ft 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Top 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11 Margins not acceptable. Fig(s) Top (T) Right (R) Bottom (B)  6. VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) Size share and reference characters must be at least 3.2 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) Lead lines cross each other. Fig(s) Lead lines missing. Fig(s) Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) Fig(s) Views not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Sectional designation should be noted with Arabic or  37 CFR 1.84(p) Numbers and reference characters not plain and legible. Fig(s) English alphabet not used. 37 CFR 1.84(p)(2) Fig(s)  Lenglish alphabet not used. 37 CFR 1.84(p)(2) Fig(s)  Sheeting and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(2) Fig(s)  Sheeting and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(2) Fig(s)  Sheeting and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(2) Fig(s)  Sheeting and reference characters not oriented in the same direction as the | Fig(s)  | Solid black shading not permitted. Fig(s) Shade lines, pale, rough and blurred. Fig(s)                           |
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| 7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)  Hatching not indicated for sectional portions of an object.  Fig(s)  Sectional designation should be noted with Arabic or  dated  17. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate. Fig(s)  Solid black shading not used for color contrast.   | Fig(s) Enlarged view not labeled separetely or properly.  | beginning with number 1. Fig(s)  16. CORRECTIONS. 37 CFR 1.84(w)   |
| Sectional designation should be noted with Arabic or Solid black shading not used for color contrast.  | 7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)  Hatching not indicated for sectional portions of an object.   | dated  |
|  | Sectional designation should be noted with Arabic or  | Solid black shading not used for color contrast.   |
| COMMENTS   |   |  |

| REVIEWER JC            | DATE 3-22-00 TELEPHONE NO. 703 305 843 |
|------------------------|--|
| ATTACHMENT TO PAPER NO | 2                                      |

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### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

#### 1. Correction of Informalities--37 CFR 1.85

File new drawings with the changes incorporated therein. The application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application, should be placed on the back of each sheet of drawings in accordance with 37 CFR 1.84(c). Applicant may delay filing of the new drawings until receipt of the Notice of Allowability (PTOL-37). Extensions of time may be obtained under the provisions of 37 CFR 1.136. The drawing should be filed as a separate paper with a transmittal letter addressed to the Drawing Processing Branch.

#### 2. Timing for Corrections

Applicant is required to submit acceptable corrected drawings within the three-month shortened statutory period set in the Notice of Allowability (PTOL-37). If a correction is determined to be unacceptable by the Office, applicant must arrange to have acceptable corrections resubmitted within the original three-month period to avoid the necessity of obtaining an extension of time and paying the extension fee. Therefore, applicant should file corrected drawings as soon a possible.

Failure to take corrective action within set (or extended) period will result in ABANDONMENT of the Application.

### 3. Corrections other than Informalities Noted by the Drawing Review Branch on the Form PTO-948

All changes to the drawings, other than informalities noted by the Drawing Review Branch, MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.